

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P638359

Luminaire Tested: **IFLD-L-SA8C-727-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638359  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-727-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31228.4 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

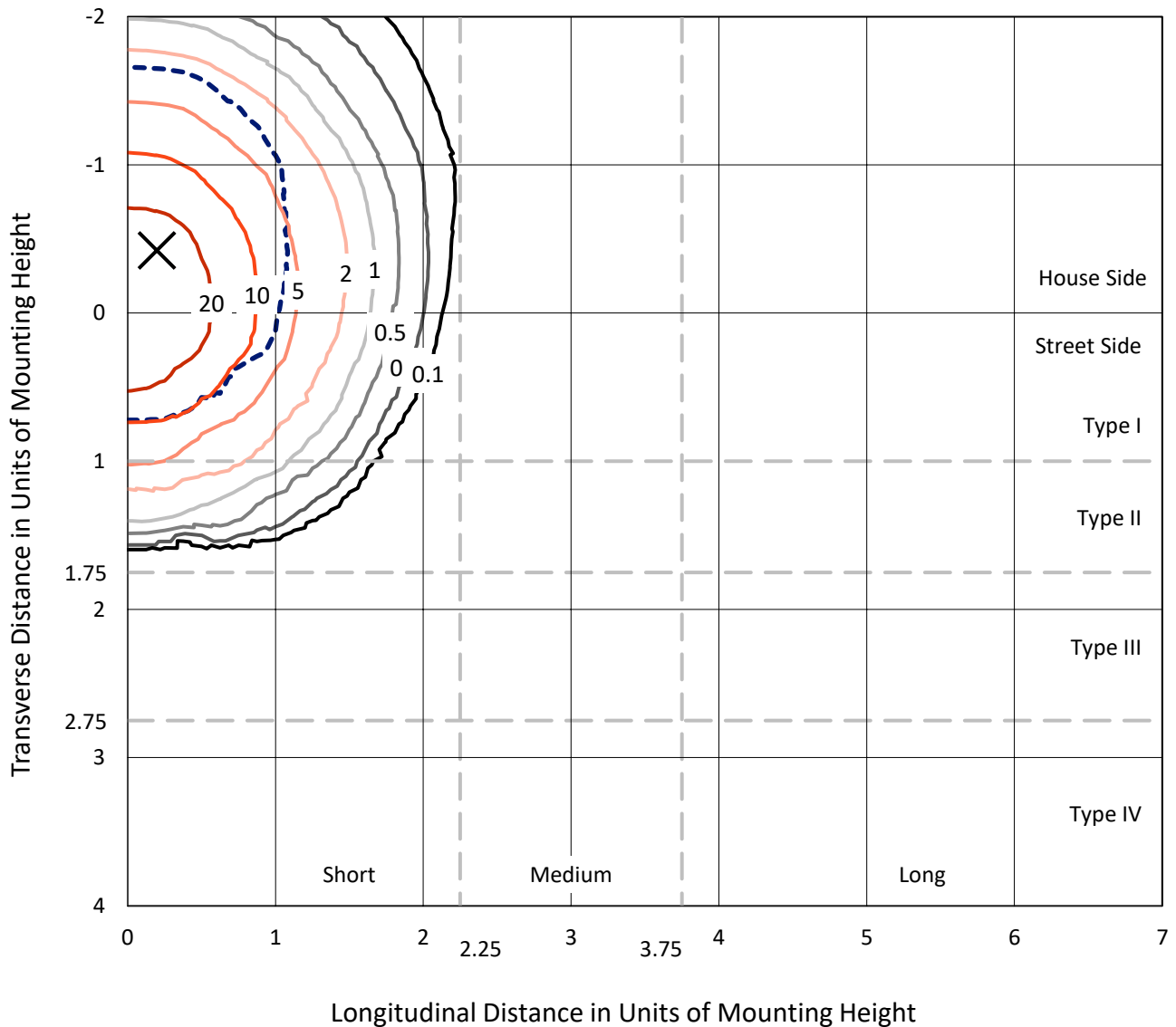
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638359  
 CATALOG NUMBER: IFLD-L-SA8C-727-U-LAM-VI

### Iso-Footcandle Lines of Horizontal Illumination

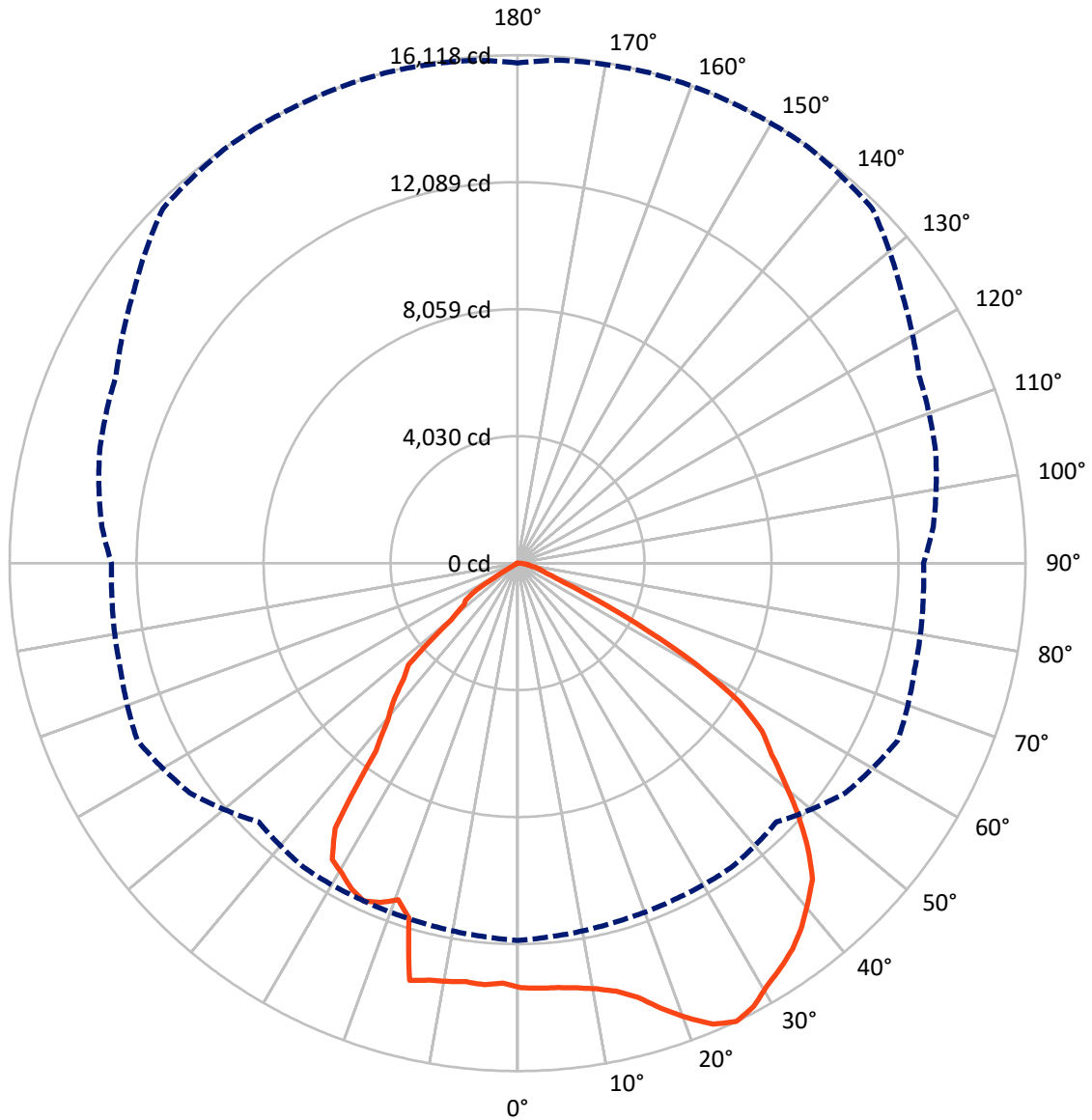
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.7 fc  
 Type I - Short - N/A

REPORT NUMBER: P638359  
CATALOG NUMBER: IFLD-L-SA8C-727-U-LAM-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P638359  
 CATALOG NUMBER: IFLD-L-SA8C-727-U-LAM-VI

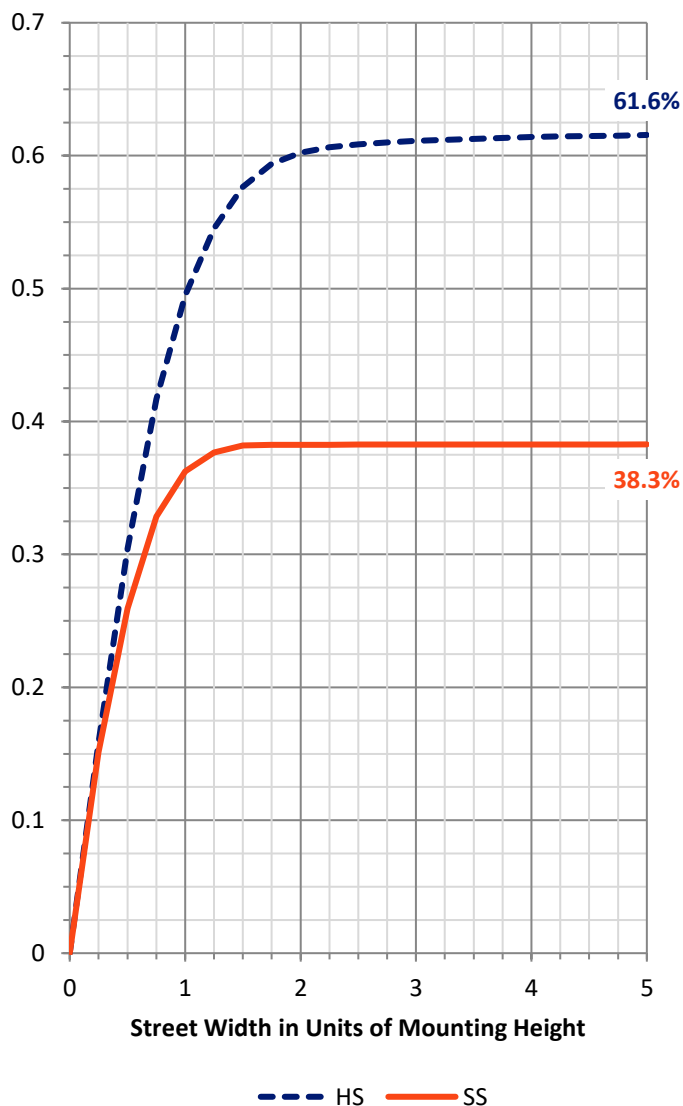
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19333.6	0.0	19333.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	11894.8	0.0	11894.8
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	31228.4	0.0	31228.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1292.7	4.1
10°-20°	3947.2	12.6
20°-30°	6240.3	20.0
30°-40°	7049.0	22.6
40°-50°	6601.5	21.1
50°-60°	4551.3	14.6
60°-70°	1222.8	3.9
70°-80°	254.8	0.8
80°-90°	68.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31228.4	100.0
0°-180°	31228.4	100.0



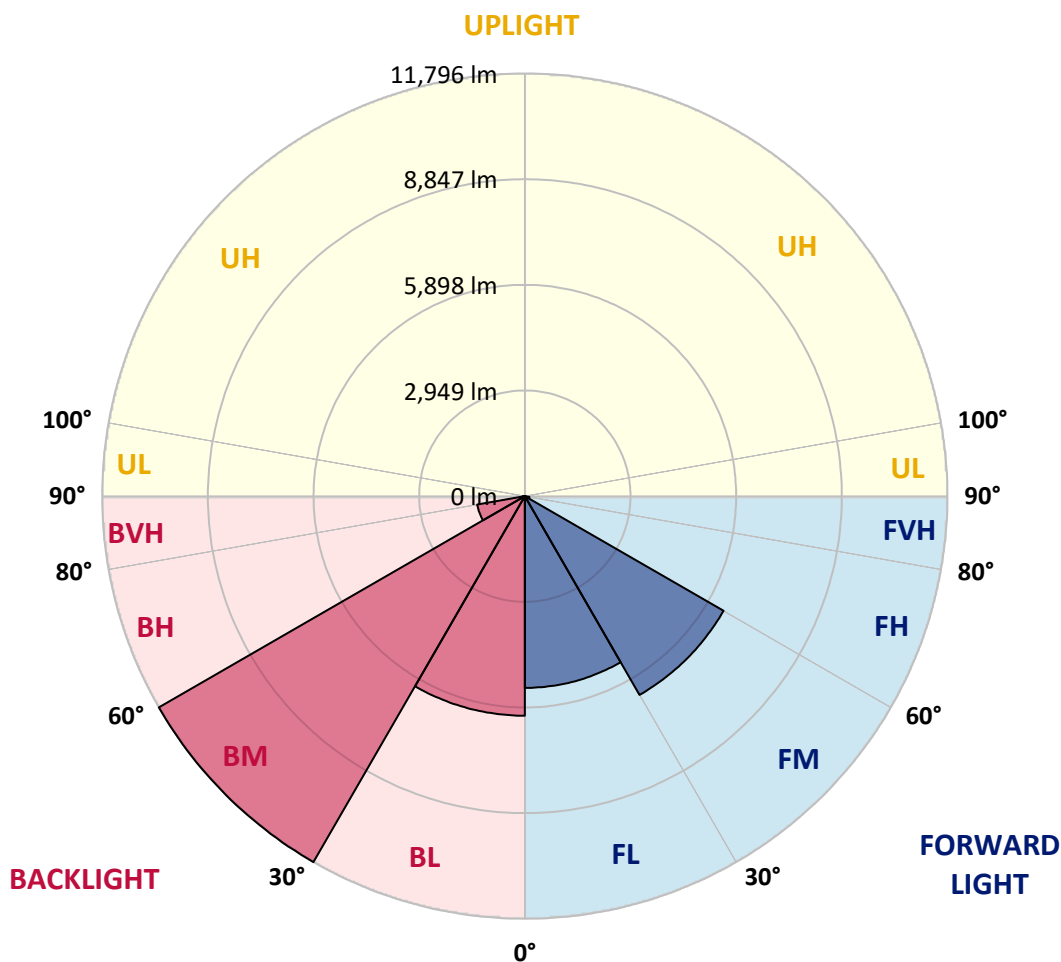
REPORT NUMBER: P638359  
 CATALOG NUMBER: IFLD-L-SA8C-727-U-LAM-VI

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5351.6	17.1			
FM (30°-60°)	6405.7	20.5			
FH (60°-80°)	128.4	0.4			G0/660
FVH (80°-90°)	9.2	0.0			G0/10
BL (0°-30°)	6128.6	19.6	B5		
BM (30°-60°)	11796.1	37.8	B5		
BH (60°-80°)	1349.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	59.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





REPORT NUMBER: P638359  
 CATALOG NUMBER: IFLD-L-SA8C-727-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13474.5	13474.5	13474.5	13474.5	13474.5	13474.5	13474.5	13474.5	13474.5	13474.5
2.5°	13534.2	13447.0	13364.4	13336.8	13451.6	13575.5	13497.5	13502.1	13474.5	13525.0
5°	13635.1	13515.8	13460.8	13419.4	13437.8	13566.3	13456.2	13497.5	13451.6	13511.2
7.5°	13598.4	13515.8	13460.8	13382.7	13442.4	13593.8	13488.3	13492.9	13469.9	13525.0
10°	13575.5	13515.8	13447.0	13456.2	13525.0	13653.5	13570.9	13616.8	13584.7	13616.8
12.5°	13630.6	13566.3	13529.6	13529.6	13589.3	13736.1	13694.8	13736.1	13722.3	13749.9
15°	13112.0	13171.6	13520.4	13676.5	13795.8	13942.6	13924.3	13965.6	13974.8	14016.1
17.5°	11060.5	11000.8	10973.3	11776.4	13910.5	14364.9	14351.1	14346.5	14300.6	14268.5
20°	11331.3	11308.3	11276.2	11335.9	11574.5	14585.2	14676.9	14112.4	13947.2	13933.5
22.5°	11762.7	11726.0	11606.6	11611.2	11684.6	12680.6	14222.6	13708.6	13653.5	13621.4
25°	11973.8	11900.4	11804.0	11776.4	11799.4	11615.8	12703.5	13313.9	13043.1	12919.2
27.5°	11602.0	11606.6	11528.6	11602.0	11514.8	10688.7	10225.2	12542.9	12533.7	12478.6
30°	11322.1	11308.3	11216.5	11308.3	10707.1	9784.6	9587.3	11698.4	11602.0	11528.6
32.5°	10463.9	10473.0	10739.2	11097.2	10110.5	9380.8	8784.1	10450.1	11363.4	11322.1
35°	7485.3	7503.7	8449.1	10216.0	9206.4	8577.6	8531.7	9032.0	10987.1	11005.4
37.5°	7205.4	7205.4	7182.4	7471.6	8495.0	8251.8	8343.6	8293.1	10064.6	10110.5
40°	7003.4	6962.1	6930.0	6475.7	5906.6	8022.3	8086.5	7857.1	9513.9	9523.0
42.5°	6760.2	6714.3	6723.5	5883.6	5287.0	7453.2	7274.2	6966.7	8596.0	8605.2
45°	6315.0	6393.1	6448.1	5149.3	5103.4	5323.7	6709.7	6517.0	7976.4	8146.2
47.5°	3212.6	3281.4	5034.6	4736.3	4841.8	4731.7	5667.9	5672.5	6636.3	7200.8
50°	2914.3	2895.9	2900.5	2762.8	4470.1	3827.6	4098.3	5199.8	5314.5	6122.3
52.5°	2716.9	2712.3	2432.4	2161.6	2808.7	3368.6	2973.9	3763.3	3951.5	5186.0
55°	2010.2	2157.0	1918.4	2033.1	1757.7	2698.6	2684.8	3396.2	3460.4	4158.0
57.5°	18.4	22.9	55.1	1546.6	1216.2	1349.3	1854.1	2317.7	2432.4	3240.1
60°	4.6	9.2	22.9	45.9	789.4	830.7	1239.1	1340.1	1509.9	1932.1
62.5°	0.0	0.0	9.2	22.9	41.3	339.6	394.7	431.4	665.5	986.7
65°	0.0	0.0	4.6	13.8	22.9	55.1	96.4	201.9	289.1	358.0
67.5°	0.0	0.0	4.6	9.2	18.4	27.5	55.1	78.0	123.9	211.1
70°	0.0	0.0	4.6	9.2	13.8	22.9	36.7	55.1	73.4	105.6
72.5°	0.0	0.0	4.6	9.2	9.2	27.5	27.5	41.3	55.1	68.8
75°	0.0	0.0	4.6	4.6	9.2	18.4	27.5	32.1	36.7	55.1
77.5°	0.0	0.0	4.6	9.2	13.8	18.4	22.9	36.7	32.1	32.1
80°	0.0	0.0	4.6	13.8	13.8	22.9	27.5	36.7	22.9	22.9
82.5°	0.0	0.0	4.6	18.4	13.8	45.9	45.9	50.5	18.4	18.4
85°	0.0	0.0	13.8	9.2	27.5	45.9	41.3	27.5	22.9	13.8
87.5°	0.0	0.0	4.6	4.6	9.2	13.8	32.1	27.5	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638359

CATALOG NUMBER: IFLD-L-SA8C-727-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13474.5	0°	13474.5	13474.5	13474.5	13474.5	13474.5	13474.5	13474.5	13474.5	13474.5
13391.9	2.5°	13575.5	13515.8	13639.7	13626.0	13566.3	13538.8	13506.6	13479.1	13277.2
13401.1	5°	13580.1	13488.3	13639.7	13612.2	13603.0	13557.1	13529.6	13570.9	13387.3
13437.8	7.5°	13580.1	13488.3	13653.5	13662.7	13648.9	13612.2	13607.6	13635.1	13483.7
13502.1	10°	13671.9	13635.1	13772.8	13786.6	13768.2	13759.1	13736.1	13717.8	13557.1
13722.3	12.5°	13864.6	13791.2	13947.2	13988.5	13974.8	13997.7	13942.6	13970.2	13805.0
13947.2	15°	14098.7	14103.3	14222.6	14314.4	14305.2	14378.6	14296.0	14369.5	14250.1
14204.2	17.5°	14456.7	14507.1	14676.9	14814.6	14865.1	14920.2	14865.1	14888.1	14718.3
13919.7	20°	14080.3	14268.5	15085.4	15337.8	15443.4	15493.9	15402.1	15429.6	15259.8
13570.9	22.5°	13740.7	13983.9	14709.1	15498.5	15824.3	15925.3	15893.1	15888.6	15824.3
12882.5	25°	13240.5	13731.5	14057.4	14892.6	15916.1	16099.7	16118.0	16113.4	16017.1
12460.3	27.5°	12625.5	12735.6	13580.1	14089.5	15273.6	15971.2	15943.6	15810.5	15682.0
11583.7	30°	11840.7	12340.9	12721.9	13534.2	14442.9	15576.5	15576.5	15475.5	15342.4
11271.6	32.5°	11441.4	12088.5	12441.9	12735.6	13511.2	15135.9	15319.5	15213.9	15108.4
11028.4	35°	11230.3	11326.7	12152.8	12419.0	13075.2	14286.8	15030.3	14924.8	14846.8
10381.3	37.5°	10766.8	10991.6	11377.2	12088.5	12290.5	13593.8	14644.8	14589.7	14498.0
9541.4	40°	9734.1	10335.4	10927.4	11602.0	11813.2	12703.5	14176.7	14199.6	14075.7
8646.5	42.5°	9123.8	9532.2	10459.3	10913.6	11482.7	12129.8	13722.3	13759.1	13671.9
8192.1	45°	8407.8	8862.2	9513.9	10339.9	11115.6	11340.4	12919.2	13304.7	13231.3
7288.0	47.5°	7751.5	8118.7	8917.2	9752.5	10610.7	10578.6	11996.7	12721.9	12620.9
6595.0	50°	6819.9	7462.4	7838.7	8605.2	9885.6	9972.8	11014.6	12038.0	11955.4
5603.7	52.5°	5750.5	6558.3	7278.8	7981.0	9151.3	9357.8	10101.3	11340.4	11285.4
4281.9	55°	5025.4	5612.9	6425.2	6989.7	8260.9	8811.7	9417.5	10675.0	10647.4
3520.1	57.5°	3575.2	4708.7	5378.8	6168.2	6838.2	7834.1	8283.9	9321.1	9064.1
1950.5	60°	2423.2	2955.6	3772.5	4621.5	5071.3	6067.2	6484.8	7315.5	7246.7
1165.7	62.5°	1280.4	1771.5	2354.4	2781.2	3107.0	4075.4	4249.8	5144.7	5121.8
468.1	65°	564.5	748.1	1275.9	1496.1	1831.2	2280.9	2432.4	2753.6	2675.6
229.5	67.5°	293.7	445.2	720.5	885.8	1115.2	1285.0	1409.0	1509.9	1574.2
151.5	70°	179.0	325.8	445.2	615.0	766.4	904.1	1000.5	1138.2	1220.8
78.0	72.5°	133.1	206.5	307.5	472.7	555.3	715.9	812.3	913.3	986.7
64.3	75°	73.4	137.7	247.8	371.7	445.2	582.9	670.1	738.9	761.8
36.7	77.5°	45.9	105.6	206.5	289.1	348.8	472.7	449.8	514.0	569.1
27.5	80°	32.1	78.0	160.6	238.6	243.2	302.9	358.0	413.0	449.8
18.4	82.5°	22.9	64.3	119.3	183.6	160.6	234.1	280.0	321.3	234.1
13.8	85°	18.4	45.9	59.7	110.1	91.8	165.2	142.3	137.7	91.8
9.2	87.5°	13.8	22.9	41.3	50.5	36.7	36.7	45.9	55.1	45.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
13474.5  
13139.5  
13231.3  
13309.3  
13424.0  
13658.1  
14052.8  
14571.4  
15140.5  
15617.8  
*15870.2*  
15581.1  
15291.9  
15021.2  
14736.6  
14406.2  
14048.2  
13662.7  
13240.5  
12694.3  
11969.2  
11322.1  
10679.6  
9036.6  
7251.3  
5126.4  
2643.5  
1574.2  
1225.4  
1000.5  
748.1  
578.3  
454.4  
169.8  
91.8  
45.9  
0.0

(END OF REPORT)